

ASSESSMENT OF DEPARTMENT STORE SELLING COMPETENCY

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DISSERTATION

ASSESSMENT OF DEPARTMENT STORE SELLING COMPETENCY

Submitted by
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In partial fulfillment of the requirements
for the Degree of Doctor of Philosophy
Colorado State University
Fort Collins, Colorado
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COLORADO STATE UNIVERSITY

June, 1971

WE HEREBY RECOMMEND THAT THE DISSERTATION PREPARED UNDER OUR SUPERVISION BY ROBERT L. RUSSELL ENTITLED ASSESSMENT OF DEPARTMENT STORE SELLING COMPETENCY BE ACCEPTED AS FULFILLING IN PART REQUIREMENTS FOR THE DEGREE OF DOCTOR OF PHILOSOPHY.

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ABSTRACT OF DISSERTATION

ASSESSMENT OF DEPARTMENT STORE SELLING COMPETENCY

The purpose of this study was to develop an instrument for measuring department store selling competencies among categories of salespersons and to analyze the differences of the test scores among the three sample groups.

The population selected was composed of one hundred salespeople with formal education and training in distributive education, one hundred salespeople without formal distributive education and one hundred employees classified as nonsalespeople. The respondents were selected by the personnel directors of five branch stores and the distributive center of Macy's California department stores located in the San Francisco Bay Area.

The first assumption was that the salespeople can be differentiated on the basis of sales competency. It was assumed that an instrument could be developed that would measure sales competency. Another assumption was that different levels of sales competency exists among department store salespeople.

The hypotheses were tested by a two-phase data analysis procedure. The Retail Selling Competency Battery of one hundred multiple-choice items was administered to the three sample groups by the testing and training directors of the

participating stores. An analysis of variance, multiple comparison of differences, t tests, and chi square tests of significance were used for determining the difference among the sample groups.

Conclusions determined on the basis of the findings of this study are:

1. The test battery mean scores differentiated the salespeople groups from the nonsalespeople group significantly.

2. A test battery was developed which measures retail selling competencies of department store employees.

3. The multiple comparison test of differences among three sample groups resulted in rejecting the hypothesis of homogeneity of variance.

4. There were significant differences among the variances of the test scores based on the three samples.

The single exception being that the distributive education salespeople did not differ from the nondistributive education salespeople significantly.

Further investigation is recommended of the relationship between the battery and other standardized tests. More validation of the battery with other department store salespeople is also recommended. Cross validation of the norm data is needed before the battery should be used in screening and certification.

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CHAPTER I

INTRODUCTION

The variety of measuring instruments which examine the occupational interests, attitudes, and abilities are numerous. Many vocational competency examinations are custom-made for evaluation of specific skills and are not available for general distribution. Vocational achievement tests have been designed for clerical jobs. Typewriting, stenography, and bookkeeping achievement tests are the most frequently used as illustrated by the Seashore-Bennett Stenographic Proficiency Test. Some commercially written trade tests are concerned, not with job skills, but with technical information. Examples of these trade information tests are provided by the series of Purdue Personnel Tests. These tests measure technical information for such occupations as carpentry, sheet metal work and welding, and engine lathe operations. Oral trade tests covering some 250 occupations have been developed by the United States Employment Service.

There is an increased use of standardized tests in selection of candidates for the professions. Such tests are available for the selection of candidates for schools of medicine, dentistry, law, business, engineering, nursing and other professional fields. The Medical College Admission

Test (MCAT) consists of four separately scored parts: verbal, quantitative, general information, and science. The Association of American Medical Colleges has employed this test since 1948. Since 1948, the Law School Admission Test (LSAT) has been administered to law school candidates on a national basis. A test designed for selection of candidates for graduate engineering training as well as for industrial jobs, is the Minnesota Engineering Analogies Test (Anastasi, 1968).

There has been little research on the development of achievement tests in distributive education. One obstacle to the development of tests appropriate for use in distributive education has been the inability of the leaders in the field to agree upon goals and outcomes of achievement. Only two distributive education studies reported contained refined tests designed for the study in which they were used. Several studies used existing achievement tests which were appropriate to the purpose for which the tests were designed but did not measure important outcomes in competencies used in distribution. Individuals conducting research in distributive education have made little use of tests up to the present time. The development of tests designed for the measurement of specific distributive education outcomes is a necessity.

The procedures for development of a test in business or industry are described by Anastasi (1968) as follows:

1. Conducting a job analysis to define the problem and to identify the principal traits to be measured;
2. assembling a trial battery of tests to measure the traits identified in the job analysis;
3. validating each preliminary test against a criterion of job success and choosing tests for final battery;
4. formulating a strategy for personnel decisions, i.e. determining how scores on the chosen tests will be used in making operational decisions.

In an effort to meet the need to determine competencies of creative personal selling, Lucy Crawford (1967) at Virginia Polytechnic Institute, initiated a vocational development project. A portion of her work was concerned with the identification of critical tasks of selected distributive workers, competencies needed to perform the tasks, and a cross-tabulation of competencies needed by workers in selected categories of business. The report of the research project, *A Competency Pattern Approach to Curriculum Construction in Distributive Teacher Education*, (Crawford, 1967), is presented in four volumes. While Crawford was not concerned with assessing achievement, her findings have implications for all phases of the distributive education program. The fact that the vast majority of the leadership in distributive education has agreed upon definitions, aims and objectives, curriculum, guidance, coordination, administration and teacher education as applied to this field indicates that these findings can serve as a theoretical structure on which related research can be erected.

Problem

Distributive education teacher-coordinator programs generally lack valid and reliable instruments for assessing competencies needed to conduct an effective distributive education program in the secondary and post-secondary school.

Competency tests serve at least three purposes:

1. To screen qualified applicants for better than average ability and range of occupational experiences in distribution as required for temporary certification according to the requirements outlined in most state plans of Vocational Education.
2. To establish sufficient and professionally acceptable evidence of competency for issuance of undergraduate credits toward a degree or for advanced certification in a teacher-training institution.
3. To identify an individual's status on the department store sales continuum with respect to an established standard of performance.

Need for the Study

There is a need for additional research to determine the degree to which high school and post-high school Distributive Education programs attain the objectives for which they are designed. To provide for better selection,

placement, and general counseling service it is necessary to study sales worker populations. The study needs to include both general and vocational programs in order to identify differences and similarities in background factors, achievement levels, and career choices. As a basis for curriculum evaluation and improvement there is a need to assess the competencies of large groups of department store salespeople who are graduates of cooperative distributive education programs.

Purpose of the Study

The main purpose was to develop an instrument for measuring department store retail selling competencies among categories of salespersons based upon Crawford's investigation. Another purpose of the study was to analyze the differences of the Retail Selling Competency Battery's scores among the groups of salespeople who participated in cooperative distributive education programs at the high school and post-high school levels, salespeople without formal training in distributive education, and nonsalespeople in large department stores.

Objectives

The major purpose of this study was to develop an instrument for measuring professional department store retail selling competencies of individual groups of salespersons. Retail selling measurement of competency is concerned with the level of attainment along the continuum of professional

to validate the battery. Nine variables were used in assessing an individual's level of selling competency. These include the following factors:

1. Human Relations
2. Retail Selling
3. Retail Merchandising
4. Product and/or Service Technology
5. Merchandise Mathematics
6. Operations and Management
7. Advertising
8. Communications
9. Display

These objectives are stated as measurable products and were administered to the three sample groups.

Basic Assumptions

In order to accomplish the objectives of this study, the following assumptions were made. The first assumption was that the department store retail salespeople can be differentiated on the basis of professional sales competency. It was also assumed that a retail selling test battery could be developed that would differentiate individual professional selling competencies reflecting higher and lower levels on the sales continuum. Another assumption was that different levels of professional retail sales competency exist in various groups of department store employees, and that an employee's membership in a group is, in part, related to his measurement level of sales competencies. The foundation assumption was that a continuum of professional retail sales competency exists on which various classes or types of individuals can be located.

CHAPTER II

REVIEW OF RELATED RESEARCH

The literature reviewed has been divided into two categories which were relevant to formulating the hypotheses of this study. The first category deals with measurement, evaluation, and assessment studies. The second category cites the limited number of comparative studies of distributive and nondistributive education students.

There has been little research on the development of achievement tests in distributive education. Several studies used existing achievement tests which were appropriate to the purposes for which the tests were designed, but they did not measure the objectives of distributive education programs. A selected number of comparative studies showing outcomes of cooperative part-time programs in distributive education will be considered last.

Measurement-Evaluation-Assessment

Prior to constructing an instrument for assessing the competencies of department store salespeople, it seemed necessary to review the work of the leading authorities and investigators in vocational psychology. Differential psychology, occupationology, and occupational differences are the foundations of vocational psychology identified by

Crites (1969). It would be remiss on the part of this investigator if the work of Anastasi, Super, Crites, and Flanagan in measuring instruments were not utilized to the fullest extent.

The ultimate success of any training program may be determined only by observing whether its graduates successfully perform the job tasks for which they have been trained. Any criterion other than that based upon observations or absence of certain operationally defined, critical (Flanagan, 1950) job behaviors merely approximates the degree to which training and education is likely to be effective. Because it is neither experimentally desirable nor administratively feasible it becomes necessary to approximate the hypothetically "true" order of success of a job by developing intermediate criteria which, through rational or empirical analysis, demonstrates a high degree of relevancy to the ultimate objectives.

Methodologically, this can be best realized in identifying a representative sample of tasks which are unbiased reflections of the total universe of behaviors necessary for success in a particular activity. This activity could be the tasks, knowledges and understandings of a department store salesperson.

Competency Measurement

Popham (1969) makes an interesting distinction for researchers to keep in mind when attempting to measure individual competencies.

The analysis, classification, and measurement of occupations is essential for writing a competency test in a specialized area, i.e. department store sales test.

An individual can be located on a physical maturation continuum by assessing those variables that relate to physical growth. Vocational maturity, like physical maturity, can be assessed by specific variables. Professional selling competency development will be assessed by measuring the subject's cognitive knowledge in the areas of human relations, selling, merchandising, product and/or service technology, mathematics, operations and management, advertising, communications and display. Salespeople can be located on a continuum of competency.

One of the first systematic presentations of abilities of persons with diverse occupations resulted from the wholesale testing with the Army Alpha during World War I. Fryer (1922) compiled Alpha scores for 96 occupations from about 3,500 draft inductees, resulting in a table of mean scores and ranges, presented in descending order of ability.

Borow (1964) compiled the chronology of notable events in the history of vocational guidance. A number of events related to job analysis, classification and measurement were selected because they are relevant to this study. The following summary statements represent the milestones in occupational measurement of abilities during the years from 1934 through 1945.

In 1934, the Occupational Research Program of the U.S. Employment Service (USES) was established "to furnish public employment offices and other cooperating agencies with operating tools which will facilitate the proper counseling, classification, and placement of workers." The USES conducts a program of testing, counseling and placement services, job analysis and worker analysis research. In addition, their occupational information compiling and publishing activities is one of the largest and most diversified in the world.

Louis L. Thurstone at the University of Chicago published a monograph on primary mental abilities. In 1938, Thurstone and his wife, Thelma Gwinn Thurstone, completed a battery of tests to measure a number of basic intellectual traits. These traits were thought to contribute to performance in a wide variety of educational and occupational activities.

Manpower problems became critical during World War II. The Personnel Research Section of the Adjutant General's Office developed new classification and assignment procedures with tests and selection tools. Instruments were developed for the Army Specialized Training Program. Similar research and classification procedures were developed for the Navy by the Bureau of Naval Personnel. In the Army Air Forces, selection and training of crews were charged to the Technical Training Command. Pilot selection research was assigned to three Psychological Research Units attached to air bases. Among the instruments contributed by military personnel

A breakdown by occupations or skills is the most useful breakdown for an educational planner. An occupational analysis where manpower requirements by skills, types, and level of training is relatively easy to accomplish. The difficulty is the forecasting of occupational mobility.

Medvin (1967) described methods which are currently employed by the government in forecasting long-term manpower requirements. The Bureau of Labor Statistics prepared an economic model by building up the demand for each product in an industry, the manpower requirements of each industry consistent with this demand, and finally, the development of an occupational matrix. The other approach is the area skill survey which depends primarily on the employers' own estimates of future occupational requirements. Many people have questioned the reliability of this method.

There are two schools of thought on the question of occupational data for educational planning. One group maintains that the need is urgent while the other group denied that increased data would improve educational planning (Swedloff, 1966).

Scoville (1966) tried to obtain education and training requirements on an occupational basis and to relate this information to the mobility characteristics of occupations. If estimates can be obtained of the amounts of various types of training required to fill certain jobs, then projections of changing occupational patterns will yield predictions for requirements of the educational and training system. It is

current and future occupational needs. In the first of four phases, the objectives were to develop: 1) data gathering instruments designed to continuously assess human resources, employment opportunities, and educational programs, 2) a system for assessing job opportunities which cluster required job skills and mental processes, and 3) manuals of procedure for use by field personnel in administering data gathering instruments and employing the clustering system, survey questionnaires to be used with students, dropouts, employees, and employers, secondary school vocational programs, community college vocational programs, and proprietary schools were developed, field tested, analyzed and modified. A two-dimensional clustering system which combined worker functions and processes was developed. Jobs in occupational areas representing mechanical, electrical, and symbolic skills were used as samples in developing task descriptions and numerical loading from which clusters were formed. Guidelines were prepared for administering data gathering instruments and employing the clustering system. Included were: 1) detailed description of instrument development, 2) a bibliography, and 3) extensive appendixes containing related information, an instrument analysis, the guide for administering instruments, the instrument, a supplement to instrument utilization, task descriptions and classification headings (Oregon State System of Higher Education, Monmoth, Oregon, 1967).

Studies related to teacher competency have been made in each of the vocational and practical arts areas (Street, 1953). As part of the Southwest States Cooperative Program in Education Administration, he also developed a competency pattern for industrial arts. His dissertation had a profound influence on the design of this study.

The findings of this investigation are relevant to the improvement of educational programs in general, and to teacher training programs more specifically. Competency is basic to the construction of a curriculum for teacher education. Out of such a consideration of desired competency come the aims, objectives, and learning experiences which constitute a valid program of teacher training. Competency is (or should be) basic to any state plan for teacher certification, and to be certified, the prospective teacher must demonstrate a required degree of competency. Adequate descriptions of the desired competencies are basic to all in-service programs designed to facilitate teacher growth. In like manner, evaluation of teacher growth and teacher upgrading in terms of state certification and salary schedule, must be related to a higher level of professional competence. For these reasons, teacher training institutions should be evaluated in terms of adequate programs designed to equip teachers with the needed elements of competency.

The purpose of this project was to determine more effective vocational teacher certification procedures in Michigan with particular emphasis on the development of

review of the literature and submitted to Ohio coordinators for validation. The instrument was developed from this data and submitted for evaluation and validation to a group of non-Ohio distributive educators. A pre- and post-test of the instrument was administered to the senior secondary distributive education students. There was a high level of agreement among Ohio coordinators concerning the objectives, program phases, and instructional content of cooperative distributive education at the secondary level. They found that it is possible to develop an instrument which can measure the related composite subject matter learning of distributive education students. Hoffman felt that his findings supported the proposition that more effort should be made by distributive educators to specify instructional objectives and to isolate the effect of their educational program on the accomplishment of those objectives.

In a technical report, Moss (1968) states that the identification and measurement of the program outcomes which are to serve as evaluative criteria is one of the most critical aspects of program evaluation, and the one that has been overlooked the most. He identified and treated eight dimensions of evaluation. First and most important, he stressed that the criteria by which instructional programs are to be evaluated must be outcomes--the products of instruction. Program characteristics cannot be used as evaluative criteria because it is assumed rather than proved that those characteristics are good.

Comparative Studies in Distributive Education

In distributive education, numerous studies have attempted to investigate the employment history of former students, but little attempt has been made to compare the employment patterns of graduates of specific vocational programs and graduates of general programs. Similarly, few studies have been made to compare, in terms of important background factors, enrollees of specific distributive education programs with general education students.

Wallace (1960) conducted a study to determine whether creative thinking ability contributed to high sales productivity for experienced female salespeople and whether it affected the amount of service the salesperson gave a customer. He found that: 1) the mean scores of those employed in high-service departments were significantly higher than those employed in low-service departments, 2) mean scores of those with high sales productivity were significantly higher than low producers, and 3) the performance of the group classified as low in both variables was considerably lower than the other groups in measured creativity while the high group in both variables obtained higher mean scores. There was no significant interaction between the two variables and the differences between total mean scores were significant at the .05 level.

Mason, (1961) as a part of his study, compared distributive education and nondistributive education graduates. His comparisons were made with respect to:

occupational education program. Under this type of cooperative plan of vocational education the student enrolls either for the eleventh or twelfth grade or for the twelfth grade alone. He was placed with an employer who provided occupational training, was paid a regular wage, and worked 15-25 hours a week.

The population for the study was made up of public high school students in Michigan who graduated at the end of the 1965 spring semester and who were, at the time of graduation, trainees in a reimbursable cooperative occupational program in office, distributive or industrial occupations.

From a qualified list of 8,720 graduates usable replies to the mailed questionnaire card were received from 4,424 trainees, or 54 per cent of the population.

Each trainee was mailed a questionnaire card and a letter explaining the purpose of the study. A follow-up letter was sent out two weeks later to those who had not responded. The complete information from the questionnaire was transferred to punch cards, stored and available for longitudinal studies in future years. Tabulation and data analysis was done on the CDC 3600 computer at the Computer Center of Michigan State University.

The major findings of the study reveal the following information. The unemployment rate was low--hardly more than one per cent were unemployed 10 months after graduation. A significantly large number of trainees--almost four out of 10--were attending college or enrolled in a school beyond

Prediction of entry and success in an occupation has been enhanced by more sophistication in ability test construction. Lawler's study supported the hypothesis that ability level should act as a moderator of the relationship between job attitudes and job performance. The sample was not a random sample of managers in general; therefore, the conclusions must be restricted to the organizations studied.

Altman identified, through a factor analysis of test items on performance tests for several skilled jobs, six curriculum areas in which workers need competence. Maley's research for identifying clusters of occupations gives support to the broadly prepared individual. An individual with both skills and cognitive experience for a cluster of occupations is more adaptable to technological changes.

The Bureau of Labor Statistics has prepared an economic model for the forecasting of long-term manpower requirements. Mobility characteristics of occupations has made it difficult to estimate the amount of various types of training and education needed for changing occupational patterns.

Aptitude test batteries for selection of students for vocational training have been developed and validated by Los Angeles Trade-Technical College. It has been concluded that the Ohio Printing Performance Test is valid and reliable for assessing student achievement at the twelfth grade level. The Minnesota Importance Questionnaire scales were shown to be useful in vocational diagnosis.

Macy's California department stores' main personnel office located in San Francisco, California. The assistant to the vice president for personnel was contacted to explain the action research and the need for his cooperation to select a representative sample for the three groups. Initial data were collected in the Stanford store from 26 subjects.

One hundred items were selected by the panel of judges after studying the item analyses of the pilot test consisting of 190 multiple choice items (Figure 1). These items representing the nine major areas of department store sales competency identified in Crawford's (1967) study, were compiled in a booklet. The personnel directors of the stores located in San Jose, San Mateo, Concord and San Francisco selected employees and administered the Retail Selling Competency Battery according to the policies of the company for testing.

Data Collection

The assessment package included the Retail Selling Competency Battery and the Department Store Sales Survey with specific directions. Also a one page prepared type-written statement was included with each assessment package. The package was then administered to the employees by the testing and training director. The prepared statement read as follows:

Survey was secured including the employees personal information, education, training and evaluation of their education.

The assessment package was administered to 26 salespeople and nonsalespeople at the Stanford store. Upon completing the item analysis, the 100 most suitable items were validated by a personnel manager, a testing and training director and a store manager. The 100 items were arranged in test form under nine major areas. The areas are: human relations, operations and management, merchandising, selling, mathematics, product and/or service technology, communications, advertising, and display.

The hypotheses of this study were tested by a two-phase data analysis procedure. The first phase of the analysis involved analysis of variance and Tukey's test for multiple comparison of differences. The second phase consisted of conducting an item analysis of the Retail Selling Competency Battery. In addition, information which served to describe the three groups in the sample and their differences was reported. The results of these analyses are presented in Chapter IV.

CHAPTER IV

FINDINGS

Introduction

The main purpose of this cooperative action research was to develop an instrument for measuring department store retail selling knowledges and understandings in salespeople. As a result of Crawford's task analysis and cross-tabulation of competencies for department store salespeople, the Retail Selling Competency Battery was constructed to assess the competencies of department store salespeople. The battery is a 100 item multiple choice test consisting of nine major areas. The nine areas are: 1) human relations, 2) retail selling, 3) retail merchandising, 4) product and/or service technology, 5) mathematics (merchandise), 6) operations and management, 7) advertising, 8) communications, and 9) display.

Three sample groups were selected to validate the battery. The first was 100 cooperative distributive education salespeople. The second group was a sample of 100 noncooperative distributive education salespeople. A sample of 100 nonsalespeople comprised the third group. All of the participants were employed at Macy's California department stores in the San Francisco Bay Area. These three groups'

Distributive education courses and work experience completed at the college level is shown in Table 14. The distributive education salespeople sample, represented by 72 per cent, have participated or are now participating in post-secondary distributive education programs. In contrast, 37 per cent of the nonsalespeople and only 26 per cent of the nondistributive salespeople have or are now experiencing distributive educational activities. Again, it is to be noted that the sample group of nondistributive education salespeople recorded the higher mean total score with the least amount of education and training in distribution.

The majority of the three employees' sample groups as indicated in Table 15 would have participated in a work-experience program in high school if they had the opportunity.

The type of work experience program preferred is shown in Table 16. The sample groups were approximately evenly divided in their choices of summer employment, part-time work, and on-the-job training related to their major field of study.

How well the school courses prepared the employees, the three sample groups for their first job, is given in Table 17. Only approximately 16 per cent felt they were exceptionally well-prepared. It is to be noted that 23 per cent of the distributive education group stated that they were exceptionally well-prepared for their first job. This ratio

The three sample groups highest composite mean rating was an identical 3.2 for: 1) Number 10. Opportunity for extra-curricular activities, and 2) Number 6. Reputation of the school in the community. The lowest mean ratings were given to: 1) Number 9. Help given students to find jobs, 2) Number 1. Quality of instruction from DE instruction, 3) Number 3. Condition of DE equipment, and 4) Number 8. Counseling for occupations and careers.

5. A study to determine the effectiveness of the sales supervisors' training methods on the learning of sales competencies needed by a salesperson in a department store.
6. There is a need for increasing the item pool and then recompute each successive administration of the Retail Selling Competency Battery to better determine the correlation with the criterion and the other tests in the battery.

United States Department of Labor. "The nature of occupations." *Vocational behavior*. Edited by Donald G. Zytowski. New York: Holt, Rinehart, and Winston, 1968, 38.

Unks, Nancy J. and Cox, Richard C. *A model for the evaluation of a testing program*. American Educational Research Association: Washington, D.C., 1968.

APPENDIXES

APPENDIX TABLE E
 SAMPLE BREAKDOWN OF EMPLOYEES ACCORDING
 TO SEX AND MEAN SCORE

Group	Sex				Total	
	Female		Male			
	N	M	N	M	N	M
DE Salespeople	81	64.6	19	68.2	100	65.3
NonDE Salespeople	79	68.1	21	67.9	100	68.1
Nonsalespeople	<u>67</u>	<u>56.3</u>	<u>33</u>	<u>59.5</u>	<u>100</u>	<u>57.4</u>
TOTAL	227	63.4	73	64.2	300	63.6

